

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/001341

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F02N15/00 F02N11/00 H02K5/10 H02K5/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02N H02K F16L B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 943 909 A (SOH MASAHIRO) 31 August 1999 (1999-08-31) figures 1-4	1-6
A	US 2002/103051 A1 (OSAWA YASUO ET AL) 1 August 2002 (2002-08-01) figures 1,2	1,3-6
A	US 5 113 104 A (ELLIS ROBERT E ET AL) 12 May 1992 (1992-05-12) figure 1	1,2

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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Date of the actual completion of the international search

28 October 2004

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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5943909	A	31-08-1999	JP	10252622 A	22-09-1998
US 2002103051	A1	01-08-2002	JP	2002221129 A	09-08-2002
US 5113104	A	12-05-1992	AT	134084 T	15-02-1996
			BR	9006958 A	05-11-1991
			CS	9005095 A3	19-02-1992
			DE	69025317 D1	21-03-1996
			DE	69025317 T2	14-11-1996
			DK	450005 T3	11-03-1996
			EP	0450005 A1	09-10-1991
			ES	2083461 T3	16-04-1996
			HU	59514 A2	28-05-1992
			IT	1246466 B	19-11-1994
			JP	4502400 T	23-04-1992
			MX	169753 B	22-07-1993
			PL	166980 B1	31-07-1995
			RU	2075151 C1	10-03-1997
			US	5358341 A	25-10-1994
			WO	9106146 A2	02-05-1991
			US	5497039 A	05-03-1996
			US	RE35855 E	21-07-1998
			US	5237231 A	17-08-1993